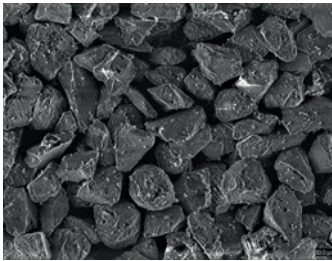


Lapping and polishing slurries



Aluminum oxide slurry

ULTRA-SOL® M100PS



ULTRA-SOL® "M" aluminum oxide slurries feature high purity, tightly controlled particles to provide fast removal rates and good surface finishes.



Pureon ready-to-use slurries are available in customer-tailored formulations in a wide range of viscosities.

Deagglomerated gamma aluminum oxide slurry

ULTRA-SOL® M Alumina Suspensions are unique permanent suspensions of our industry standard Ultra-Lox aluminum oxide abrasive powders. The alkaline chemistry combined with the high-purity (> 99.99 %) alumina powders provide an optimum solution for critical needs in precision polishing of optical materials, electro-optical materials, laser crystals, ophthalmic lenses, and in metallurgical specimen preparation.

ULTRA-SOL® M5-, M15-, M30-, and M100-PS Agglomerate-Free Alumina Suspensions are manufactured from our ULTRA-LOX M series of agglomerate-free aluminum oxide powders. They are typically used in critical polishing applications to produce surface finishes approaching a few angstroms. Please note that the data below represents functional particle sizes, which are typically smaller than measured with standard light scattering metrology. These are indicative of how the particle will act under pressure in a polishing application.

Product specifications

Base materialAluminum oxide
 Shelf life.....12 months
 ApplicationsAluminum, cadmium zinc telluride, gallium arsenide, indium phosphide, nickel, spinel, zinc selenide

Order code	Base material	Particle size [µm]	pH	Solids content [%]	Specific gravity
ULTRA-SOL® M5PS	Aluminum oxide	0.80	8.5	15.0	1.13
ULTRA-SOL® M5PS2	Aluminum oxide	0.90	8.5	15.0	1.13
ULTRA-SOL® M15PS	Aluminum oxide	0.30	8.0	15.0	1.13
ULTRA-SOL® M30PS	Aluminum oxide	0.10	8.5	14.0	1.13
ULTRA-SOL® M100PS	Aluminum oxide	0.05	8.5	10.5	1.09

Contact

sales@pureon.com

www.pureon.com/sales-contacts

Order information**Packing**

1 gal jugs, 5 gal pail, and 55 gal drums. Other sizes available upon request.

Unit of measure

Gallon [gal]

ULTRA-SOL® M100PS highlights

- 99.99 % pure aluminum oxide abrasives & suspensions
- Small particle sizes ideal for intermediate and final polishing of many different materials
- Abrasives milled and deagglomerated to create controlled, consistent particle size distribution, reducing scratches
- Unique blend of alpha & gamma phase alumina to yield best balance of rate and finish



Pureon offers a wide range of customized solutions. More information can be found on www.pureon.com/products/overview

Instructions**Safety**

To avoid skin or eye irritation, use appropriate personal protective equipment according to MSDS. Follow all MSDS, Safety datasheet, label precautions and industrial safety and hygiene practices when handling or using this product.

Homogenization

For consistent performance, ensure that the suspension is completely homogenized prior to use. Suspensions can separate if stored over extended periods of time and if exposed to variable temperatures.

Dilution

This slurry is designed as a ready-to-use product directly from the container. If the slurry is to be used in a diluted form, use only high-quality deionized water (> 18 M ohm) for the dilution. The product should be mixed periodically (10 to 20 minutes per day) by recirculation or mechanical stirring to ensure that the particles are uniformly suspended. To avoid possible scratching issues, storage and re-use of on-site diluted slurry is not recommended without proper mixing and filtration.

Due to the unique formulation of this slurry, pH adjustment is not recommended. For a different pH, please contact your Pureon representative.

Storage

Recommended	4 °C – 33 °C / 40 °F and 90 °F
Sort term	0 °C – 38 °C / 32 °F and 100 °F

Products should be allowed to return to room temperature prior to use. Storage outside the recommended conditions may result in irreversible product damage.

Disposal

Dispose of in accordance with all applicable local regulations.

All information is non-binding and provided for information purposes only. Subject to change without notice.